

# ISC INTEGRATION SERVICES CENTER

## Service Description: NIH GovTrip - NBS Web Service

Version #	Change Description	Owner
1.0	Initial Version	Jerry Zhou
1.1	Added ISC Logo and Schema Section	Ian Sebright

## **NIH GovTrip-NBS SOA Architecture and Web Service Integration**

### **Overview**

A NIH travel preparer logs into GovTrip system to create, update or cancel a travel document – travel authorization and travel voucher. The document is then routed to the approving officials. The approving official does a final approval. The system integration does a real-time funds check to NBS system to ensure accounting elements are all correct and funds is available for this travel document.

The Northrop Grumman Enterprise Application Integration (EAI) server then sends financial transaction Web Service call to NIH. The GovTrip-NBS interface will process the request, parse the XML document and load them into the Oracle Open Interface Tables. The transaction data will be validated and certain business rules will be applied. For Obligation transaction, a Positive Acknowledgement (POSACK) message; for voucher transaction, the Advice of Payment (AOP) message will be sent back to NG EAI.

NIH travel preparer also looks up Project Accounting Information (CAN) via a real-time web service request to NBS system to ensure only active and appropriate CAN is selected to pay for the travel.

### **Architecture**

The integration approach and architecture implemented for GovTrip-NBS integration is open architecture that can be used for other future system integration projects. It is consistent and in compliance with NIH Enterprise Architecture (EA) and Service Oriented Architecture (SOA) guidelines and practices.

The architecture and design, as directed by NBS management, consist of:

1. Enterprise scope, reusable across different projects.
2. Forward compatible to the next Oracle Applications (Financials) release.
3. Leverage NIH TIBCO and/or Java EE Applications
4. Leverage industry best practices and XML data standards

## Web Service Definition Language (WSDL)

### Part A. NIH Inbound Web Services

All NIH Inbound Web Services can be found in  
<https://soadev.nih.gov/EP/Financials/Etravel/inspection.wsdl>

The WSDLs can be found at the following URL:

**1. Lookup Projects / CANs** - NIH user can search Project or CAN in NBS system via a real-time web service request.

<https://soadev.nih.gov/EP/Financials/Etravel/LookupProjects?wsdl>

**2. Perform Funds Check** – the external system can validate accounting elements and check funds availability in NBS system via a real-time web service request.

<https://soadev.nih.gov/EP/Financials/Etravel/CheckFunds?wsdl>

**3. Create a Collection of Obligations within One Transaction (up to 4 POs)** – the external system can *create* up to 4 Purchase Orders in NBS system through this web service request.

<https://soadev.nih.gov/EP/Financials/Etravel/CreatePOs?wsdl>

**4. Amend a Collection of existing Obligations within One Transaction** – the external system can *update* up to 4 Purchase Orders in NBS system through this web service request.

<https://soadev.nih.gov/EP/Financials/Etravel/AmendPOs?wsdl>

**5. Cancel a Collection of existing Obligations within One Transaction** – the external system can *cancel* up to 4 Purchase Orders in NBS system through this web service request.

<https://soadev.nih.gov/EP/Financials/Etravel/CancelPOs?wsdl>

**6. Create a Collection of Account Payables, Receivables and General Ledger Entries within One Transaction** – the external system can *create* any A/P, A/R, G/L or any combination of those transactions in NBS system through this web service request.

<https://soadev.nih.gov/EP/Financials/Etravel/CreateVoucher?wsdl>

**7. Lookup sponsors by sponsor number or sponsor name wild card** - NIH user can search Sponsor by either sponsor number or sponsor name in NBS system via a real-time web service request.

<https://soadev.nih.gov/EP/Financials/Etravel/LookupSponsors?wsdl>

## Part B. NIH Outbound Web Services

NIH Outbound Web Services are provided by Northrop Grumman (NG). Currently those WSDLs are not available online to NIH, except Production.

**1. Positive Acknowledgement (POSACK) of Financial Obligations** - NIH sends the Obligation Status and Amount from NBS or REJECT status along with error message to NG via a web service request.

**2. Advice of Payment (AOP of Financial Payments** - NIH sends the Payment Status and Amount from NBS to NG via a web service request.

**3. Traveler Profile (New, Update, Terminate and Reactivate)** - NIH sends the traveler information from NBS to NG via a web service request.

**4. HR Organization** - NIH sends organization information from NBS to NG via a web service request.

**5. Travel Document Action (Summary, Detail and Stamping)** - NIH queries travel document information in NG eTravel system and send document stamping request from NBS to NG via a web service call.

## Web Services Schemas

### ProjectsCode

```
<?xml version="1.0" encoding="UTF-8"?>

<xss:schema xmlns:xss="http://www.w3.org/2001/XMLSchema"
    xmlns:pc="https://www.nih.gov/xmlns/financial/projectcode112007.wsdl"
    targetNamespace="https://www.nih.gov/xmlns/financial/projectcode112007.wsdl"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified">
    <xss:element name="ProjectInput">
        <xss:complexType>
            <xss:sequence>
                <xss:element ref="pc:DepDate"/>
                <xss:element ref="pc:RetDate"/>
                <xss:element ref="pc:ProjectSearchType"/>
                <xss:element ref="pc:ProjectSearchValue"/>
            </xss:sequence>
        </xss:complexType>
    </xss:element>
    <xss:element name="DepDate" type="xs:date"/>
    <xss:element name="RetDate" type="xs:date"/>
    <xss:element name="ProjectSearchType" type="xs:int"/>
    <xss:element name="ProjectSearchValue" type="xs:string"/>
    <xss:element name="ProjectOrg" type="xs:string"/>
    <xss:element name="ProjectNumber" type="xs:int"/>
    <xss:element name="ProjectId" type="xs:int"/>
    <xss:element name="OperatingUnitId" type="xs:string"/>
    <xss:element name="ProjectName" type="xs:string"/>
    <xss:element name="ProjectDesc" type="xs:string"/>
    <xss:element name="FundType" type="xs:string"/>
    <xss:element name="ProjectElementsCollection">
```

```
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```

## FundsCheck

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<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:fc="https://www.nih.gov/xmlns/financial/fundscheck112007.xsd"
    targetNamespace="https://www.nih.gov/xmlns/financial/fundscheck112007.xsd"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified">
    <xs:element name="FundsCheckInputCollection">
        <xs:complexType>
            <xs:sequence>
                <xs:element ref="fc:FundsCheckInput"
maxOccurs="unbounded"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="FundsCheckOutputCollection">
        <xs:complexType>
            <xs:sequence>
                <xs:element ref="fc:FundsCheckOutput"
maxOccurs="unbounded"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="VendorId" type="xs:int"/>
    <xs:element name="ProjectId" type="xs:int"/>
    <xs:element name="TaskId" type="xs:int"/>
    <xs:element name="OperatingUnitId" type="xs:string"/>
    <xs:element name="ExpenditureOrgId" type="xs:int"/>
    <xs:element name="ExpenditureType" type="xs:string"/>
    <xs:element name="ExpenditureDate" type="xs:dateTime"/>
    <xs:element name="ExpenditureCost" type="xs:double"/>
    <xs:element name="Result" type="xs:int"/>
    <xs:element name="ErrorNumber" type="xs:int"/>
    <xs:element name="ErrorMessage" type="xs:string"/>
    <xs:element name="AccountingDate" type="xs:dateTime"/>
    <xs:element name="FundsCheckType" type="xs:string"/>
    <xs:element name="FundsCheckInput">
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                <xs:element ref="fc:VendorId"/>
                <xs:element ref="fc:ProjectId"/>
                <xs:element ref="fc:TaskId"/>
                <xs:element ref="fc:OperatingUnitId"/>
            </xs:sequence>
        </xs:complexType>
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```

```
<xs:element ref="fc:ExpenditureOrgId"/>
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            <xs:element ref="fc:ExpenditureDate"/>
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            <xs:element ref="fc:ErrorNumber"/>
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## POInterface

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<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
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    targetNamespace="https://www.nih.gov/xmlns/financial/po112007.xsd"
    elementFormDefault="qualified"
    attributeFormDefault="qualified">
    <xs:element name="PoHeadersInterfaceCollection"
        type="po:PoHeadersInterfaceCollection"/>
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                    minOccurs="0">
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</xs:schema>
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```

```
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minOccurs="0"/>
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    </xs:simpleType>
</xs:element>
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minOccurs="0"/>
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    <xs:element name="minReleaseAmount" type="xs:decimal"
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        <xs:element name="fromHeaderId" type="xs:decimal" nillable="true"
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minOccurs="0">
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```
                </xs:restriction>
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            </xs:simpleType>
        </xs:element>
        <xs:element name="attribute2" nillable="true" minOccurs="0">
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                    <xs:maxLength value="150"/>
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        </xs:element>
        <xs:element name="attribute3" nillable="true" minOccurs="0">
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        </xs:element>
        <xs:element name="attribute5" nillable="true" minOccurs="0">
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        </xs:element>
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minOccurs="0">
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nillable="true" minOccurs="0"/>
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nillable="true" minOccurs="0"/>
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<xs:complexType name="PODistSelect"/>
</xs:schema>

```

## CancelPOAPI

```

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<schema xmlns="http://www.w3.org/2001/XMLSchema"
    xmlns:soap11-enc="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:cp="https://www.nih.gov/xmlns/financial/cancelpoapi112007.xsd"
    targetNamespace="https://www.nih.gov/xmlns/financial/cancelpoapi112007.xsd"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified">
    <element name="controlDocumentElement">
        <complexType>
            <sequence>
                <element name="pApiVersion" type="decimal"
nillable="true"/>
                <element name="pInitMsgList" type="string"
nillable="true"/>
                <element name="pCommit" type="string" nillable="true"/>
                <element name="pDocType" type="string" nillable="true"/>
                <element name="pDocSubtype" type="string" nillable="true"/>
                <element name="pDocId" type="decimal" nillable="true"/>
                <element name="pDocNum" type="string" nillable="true"/>
                <element name="pReleaseId" type="decimal" nillable="true"/>
                <element name="pReleaseNum" type="decimal"
nillable="true"/>
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                <element name="pDocLineNum" type="decimal"
nillable="true"/>
                <element name="pDocLineLocId" type="decimal"
nillable="true"/>
                <element name="pDocShipmentNum" type="decimal"
nillable="true"/>
                <element name="pAction" type="string" nillable="true"/>
                <element name="pactionDate" type="dateTime"
nillable="true"/>
                <element name="pCancelReason" type="string"
nillable="true"/>
                <element name="pCancelReqsFlag" type="string"
nillable="true"/>
                <element name="pPrintFlag" type="string" nillable="true"/>
                <element name="pNoteToVendor" type="string"
nillable="true"/>
                <element name="pUseGldate" type="string" nillable="true"/>
            </sequence>
        </complexType>
    </element>
    <element name="controlDocumentResponseElement">
        <complexType>
            <sequence>

```

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        <element name="result"
type="cp:CancelPOUser_controlDocument_Out" nillable="true"/>
    </sequence>
</complexType>
</element>
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    <sequence>
        <element name="xreturnstatusOut" type="string" nillable="true"/>
    </sequence>
</complexType>
<element name="controlDocumentCollection">
    <complexType>
        <sequence>
            <element ref="cp:controlDocumentElement"/>
        </sequence>
    </complexType>
</element>
<element name="responseCollection">
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        <sequence>
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</schema>
ARInterface
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    targetNamespace="https://www.nih.gov/xmlns/financial/ar112007.xsd"
    elementFormDefault="qualified"
    attributeFormDefault="qualified">
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        type="ar:RaInterfaceLinesAllCollection"/>
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                </xs:element>
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minOccurs="0">
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nillable="true" minOccurs="0"/>
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minOccurs="0">
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minOccurs="0"/>
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minOccurs="0">
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minOccurs="0">
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minOccurs="0">
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minOccurs="0">
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minOccurs="0"/>
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minOccurs="0">
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</xs:complexType>
</xs:schema>
```

## VoucherInterface

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:vc="https://www.nih.gov/xmlns/financial/vc112007.xsd"
    xmlns:ap="https://www.nih.gov/xmlns/financial/ap112007.xsd"
    xmlns:ar="https://www.nih.gov/xmlns/financial/ar112007.xsd"
    xmlns:gl="https://www.nih.gov/xmlns/financial/gl112007.xsd"
    targetNamespace="https://www.nih.gov/xmlns/financial/vc112007.xsd"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified">
    <xs:import namespace="https://www.nih.gov/xmlns/financial/ap112007.xsd"
    schemaLocation="APIInterface.xsd"/>
    <xs:import namespace="https://www.nih.gov/xmlns/financial/ar112007.xsd"
    schemaLocation="ARIInterface.xsd"/>
    <xs:import namespace="https://www.nih.gov/xmlns/financial/gl112007.xsd"
    schemaLocation="GLIInterface.xsd"/>
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        <xs:complexType>
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minOccurs="0"/>
                <xs:element ref="ar:RaInterfaceLinesAllCollection"
minOccurs="0"/>
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            </xs:sequence>
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</xs:schema>
```

## GLInterface

```
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    xmlns:gl="https://www.nih.gov/xmlns/financial/gl112007.xsd"
    targetNamespace="https://www.nih.gov/xmlns/financial/gl112007.xsd"
```

```
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attributeFormDefault="qualified"
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</xs:complexType>
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        <xs:element name="actualFlag" minOccurs="0">
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```

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                <xs:maxLength value="240"/>
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</xs:complexType>
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```

## Sponsors

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:sp="https://www.nih.gov/xmlns/financial/sponsorlookup112007.xsd"
    targetNamespace="https://www.nih.gov/xmlns/financial/sponsorlookup112007.xsd"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified">
    <xs:element name="SponsorInput">
        <xs:complexType>
            <xs:sequence>
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        </xs:complexType>
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        <xs:complexType>
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                <xs:element ref="sp:SponsorName"/>
                <xs:element ref="sp:AddressId"/>
                <xs:element ref="sp:Address1"/>
                <xs:element ref="sp:Address2"/>
                <xs:element ref="sp:Address3"/>
                <xs:element ref="sp:Address4"/>
                <xs:element ref="sp:City"/>
                <xs:element ref="sp:State"/>
                <xs:element ref="sp:Postal"/>
                <xs:element ref="sp:Country"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
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    <xs:element name="AddressId" type="xs:int"/>
    <xs:element name="Address1" type="xs:string"/>
    <xs:element name="Address2" type="xs:string"/>
    <xs:element name="Address3" type="xs:string"/>
    <xs:element name="Address4" type="xs:string"/>
    <xs:element name="City" type="xs:string"/>
    <xs:element name="State" type="xs:string"/>
    <xs:element name="Postal" type="xs:string"/>
    <xs:element name="Country" type="xs:string"/>
    <xs:element name="SponsorElementsCollection">
        <xs:complexType>
            <xs:sequence>
                <xs:element ref="sp:SponsorElements" minOccurs="0"
maxOccurs="300"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:schema>
```

## TransactionContext

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:tc="https://www.nih.gov/xmlns/financial/tc112007.xsd"
    targetNamespace="https://www.nih.gov/xmlns/financial/tc112007.xsd"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified">
    <xs:element name="TransactionContext">
        <xs:complexType>
            <xs:sequence>
```

```
<xs:element ref="tc:ApplicationClient"/>
<xs:element ref="tc:TimeStamp"/>
<xs:element ref="tc:TransactionId"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="TransactionId">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="20"/>
            <xs:minLength value="5"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="ApplicationClient">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:maxLength value="20"/>
            <xs:minLength value="5"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="TimeStamp" type="xs:dateTime"/>
</xs:schema>
```

## TransactionReceipt

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:tr="https://www.nih.gov/xmlns/financial/tr112007.xsd"
    targetNamespace="https://www.nih.gov/xmlns/financial/tr112007.xsd"
    elementFormDefault="qualified"
    attributeFormDefault="unqualified">
    <xs:element name="TransactionReceipt">
        <xs:complexType>
            <xs:sequence>
                <xs:element ref="tr:ReceiptNumber"/>
                <xs:element ref="tr:RequestNumber"/>
                <xs:element ref="tr:TimeStamp"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="ReceiptNumber" type="xs:string"/>
    <xs:element name="TimeStamp" type="xs:string"/>
    <xs:element name="RequestNumber" type="xs:string"/>
</xs:schema>
```

## Contact Information

For additional information on this web service, contact [CITISCAAdmins@mail.nih.gov](mailto:CITISCAAdmins@mail.nih.gov).